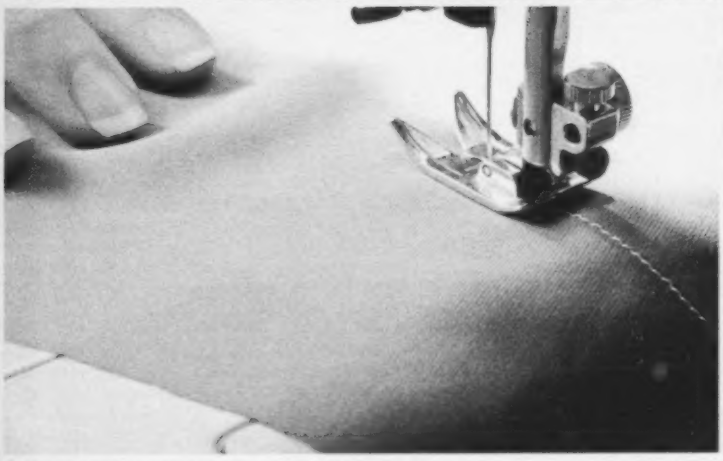

# INDUSTRY PROFILES

## Manufacturing Industry

**June 2012**

Alberta

**Overview:**

The Manufacturing industry[1] in Alberta includes establishments involved in:

- food manufacturing;
- beverage and tobacco product manufacturing;
- textile, textile product mills and clothing manufacturing;
- petroleum and coal products manufacturing;
- chemical, plastics and rubber manufacturing;
- computer and electronic products manufacturing; and
- other manufacturing.

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[1] North American Industry Classification System (NAICS) groups 311 and 339

## Section A: Business Environment

### 1. 2011 Employment and Unemployment Numbers and Rates:

| | Alberta | Manufacturing Industry |
|---|---|---|
| Number of employed | 2,094,100 | 141,400 |
| Percent employed in the industry | | 6.8% |
| Number of unemployed | 121,000 | 5,500 |
| Unemployment rate | 5.5% | 3.7% |

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0008, 2012

For more information on employment numbers or for a historical comparison, please go to the Labour Force Statistics[2] or Statistics Canada[3] websites.

### 2. Industry's Growth:

- This industry accounted for 6.8% of total employment in Alberta in 2011.
- Employment in the Manufacturing industry is expected to grow at an average of 2.4% from 2011 to 2015.
- This industry is expected to account for 6.2% of total employment in Alberta in 2015.

For more information, see the *Alberta Modified Canadian Occupational Projection System (COPS) Outlook 2011 – 2015, Industry Employment Outlook*[4] online and the Alberta Learning Information Service (ALIS)[5] website for descriptions of industries.

[2] See http://www.employment.alberta.ca/BI/67.html
[3] See http://www.statcan.gc.ca
[4] See http://www.employment.alberta.ca/documents/cops-outlook-2011-2015.pdf
[5] See http://www.alis.alberta.ca

## 3. Facts, Trends and Outlook:

According to Statistics Canada's National Economic Accounts, the Manufacturing industry accounted for 8.4% of Alberta's Gross Domestic Product in 2011, down from 9.1% in 2001. Its share of Alberta's total employment decreased from 8.6% in 2001 to 6.8% in 2011.

Employment in 2011 was 13.5% higher than its level in 2010. Over the last ten years, employment increased from 139,800 people in 2001 to 141,400 people in 2011. There were 133,900 employees in the industry in 2011 of whom 95.4% were permanent and 4.6% were temporary. Self-employed people accounted for 5.4% of total employment in the industry in 2011.

| Characteristic | Alberta | Manufacturing |
|---|---|---|
| Median Retirement Age (years) | 64.7 | 65.9 |
| Average Number of Hours Worked per Week | 37.6 | 40.4 |
| Multiple Jobholders (% of total employment) | 6.0% | 4.8% |
| Average Job Tenure (months) | 87.9 | 93.4 |
| Employees Under Union Coverage (%) | 23.2% | 18.9% |
| Employees Working Overtime per Week (%) | 25.8% | 31.8% |

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0022, 282-0031, 282-0042, 282-0078 and 282-0084, 2012, and custom tabulation (median retirement age)

According to *Alberta Occupational Demand Outlook 2011-2015*, employment growth in the following occupations is expected to equal or exceed 2.7%, the average for all occupations: Supervisors in assembly and fabrication; Machine operators and related workers in fabric, fur and leather products manufacturing; Food, beverage and tobacco processing; Mechanical, electrical, electronics and other assemblers; and Labourers in processing and manufacturing. Employment growth in other occupations within this industry is expected to be below this average.

## 4. Size of Businesses in Alberta and the Industry:

| Establishment Size | Businesses in Alberta | | Businesses in Manufacturing | |
|---|---|---|---|---|
| | Number of Employees | % | Number of Employees | % |
| Less than 20 employees | 637,400 | 36.6% | 35,000 | 26.1% |
| 20 to 99 employees | 594,400 | 34.1% | 46,700 | 34.9% |
| 100 to 500 employees | 326,300 | 18.7% | 39,300 | 29.4% |
| Over 500 employees | 184,200 | 10.6% | 12,900 | 9.6% |

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0076, 2012

Note: Statistics Canada's survey methodology for determining establishment size differs from the one it uses in the Labour Force Survey to determine total employment. As a result, the total number of employees by establishment size will not be the same as total employment in the industry, except by coincidence.

## Section B: Human Resources Profile

### 1. Occupational Information:

Some examples of occupations that can be found in the Manufacturing industry include:

- meat cutter;
- machinist;
- manufacturing engineer;
- sawmill machine operator; and
- instrument technician.

For a complete listing of all occupations related to this industry as well as detailed information on education and skill requirements, visit the Alberta Occupational Profiles[6] website.

### 2. Demographics: Gender and Age:

According to the Labour Force Survey, the gender breakdown in Alberta's manufacturing industry in 2011 was as follows:

- women employed: 36,500 people, or 25.8%
- men employed: 104,900 people, or 74.2%

In Alberta, women accounted for 44.9% and men made up 55.1% of total employment.

| Age Characteristics | Employment in Alberta | | Employment in Manufacturing | |
|---|---|---|---|---|
| | Number | % | Number | %* |
| 15-24 years | 318,900 | 15.2% | 12,500 | 8.8% |
| 25-54 years | 1,423,000 | 68.0% | 106,900 | 75.6% |
| 55 years and over | 352,300 | 16.8% | 21,900 | 15.5% |

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0008, 2012

* Percentages may not add up to 100 due to rounding

[6] See http://www.alis.alberta.ca/occinfo

## 3. Wages:

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0072, 2012
Note: The average hourly wage is obtained by dividing the sum of the wages of all the employees by the total number of employees. The median hourly wage is that wage below which half the employees earn and above which half the employees earn.

**Wage and Salary Information for Selected Occupations**

| Occupation | Average Hourly Wage | | | Average Annual Salary |
|---|---|---|---|---|
| | Starting Average | Overall Average | Top Average | |
| Industrial engineer | $ 31.62 | $ 39.78 | $ 48.13 | $ 82,169 |
| Manufacturing manager | $ 34.48 | $ 41.39 | $ 49.33 | $ 86,474 |
| Industrial instrument technician and mechanic | $ 31.55 | $ 36.42 | $ 38.68 | $ 74,698 |
| Machinist | $ 20.99 | $ 27.00 | $ 32.97 | $ 56,742 |

Data Source: 2011 Alberta Wage and Salary Survey

For more information on the 2011 Alberta Wage and Salary Survey, refer to the WAGEinfo[7] webpage. For job descriptions, duties, required skills and education for specific occupations in the Manufacturing industry, visit the ALIS[8] website.

[7] See http://www.alis.alberta.ca/wageinfo
[8] See http://www.alis.alberta.ca

## Section C: Additional Information

### Links to Selected Associations in Industry:

- Alberta Food Processors Association
  (http://www.afpa.com)
- Brewers Association of Canada
  (http://www.brewers.ca)
- Food Processors of Canada
  (http://foodnet.fic.ca)
- Canadian Poultry and Egg Processors Council
  (http://www.cpepc.ca)
- Alberta Forest Products Association
  (http://albertaforestproducts.ca)
- Canadian Plastics Industry Association
  (http://www.plastics.ca)
- Chemistry Industry Association of Canada
  (http://www.ccpa.ca)
- Canadian Petroleum Products Institute
  (http://www.cppi.ca)
- Canadian Machinery and Metal Working Magazine
  (http://www.canadianmetalworking.com)
- Canadian Manufacturers and Exporters
  (http://www.cme-mec.ca)